



(3)

Bartlam, Sons. Ltd

Yard No. 301-2-3-4

Profile.

SUNDERLAND RPT. NO. 34 144

Empire Mauritius.

SUNDERLAND RPT. NO. 34207

"Empire Odessa"

SUNDERLAND RPT. NO. 34323

Empire Tobago.

MADDA BOZZO *

EX

"GRYFEVALE" ~~✓~~

M/N KRISS

015213-015223-0208

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Lloyd's Register
Foundation

S.S. NO 301.

P.F. (C) TYPE VESSEL.

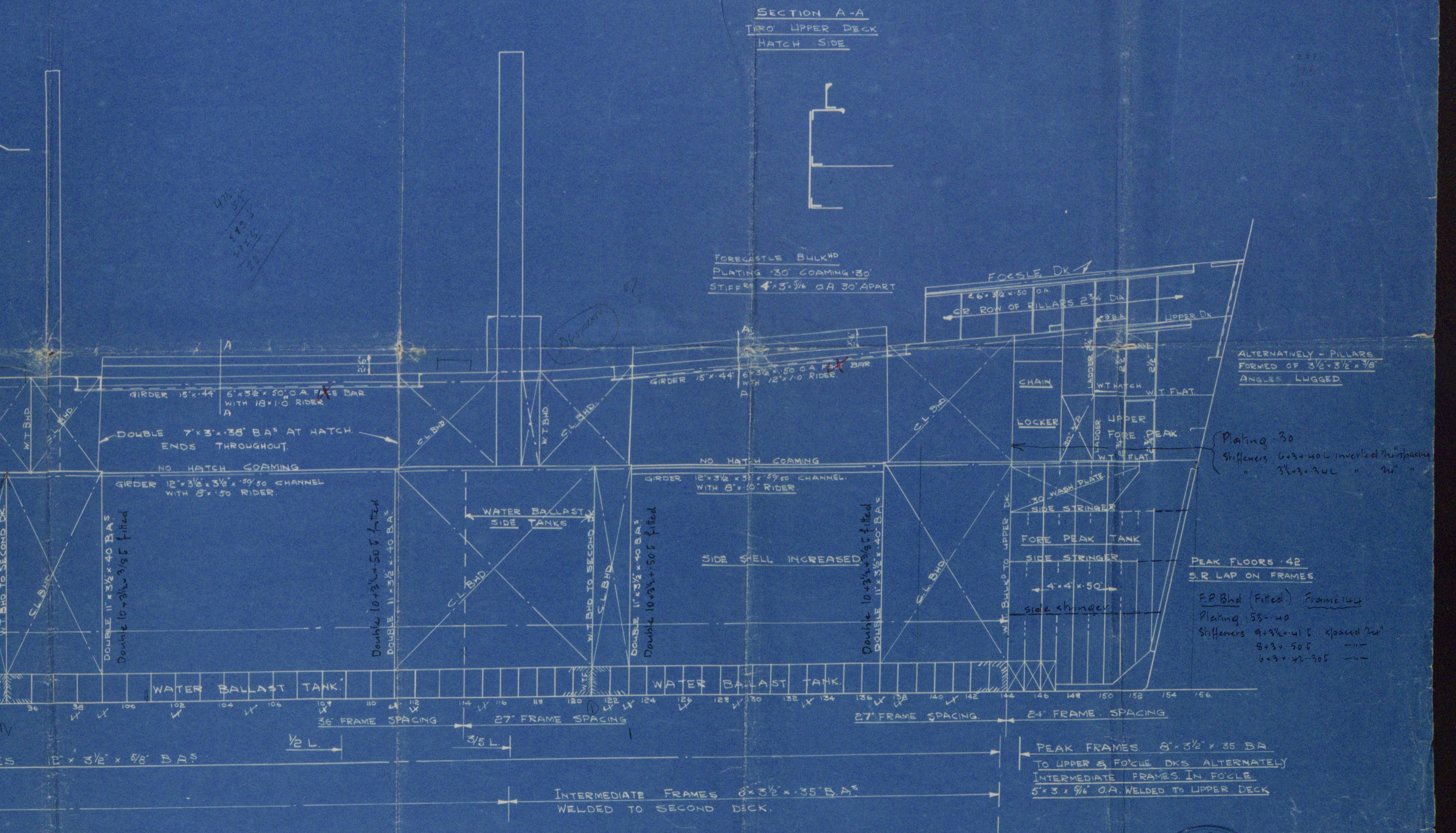
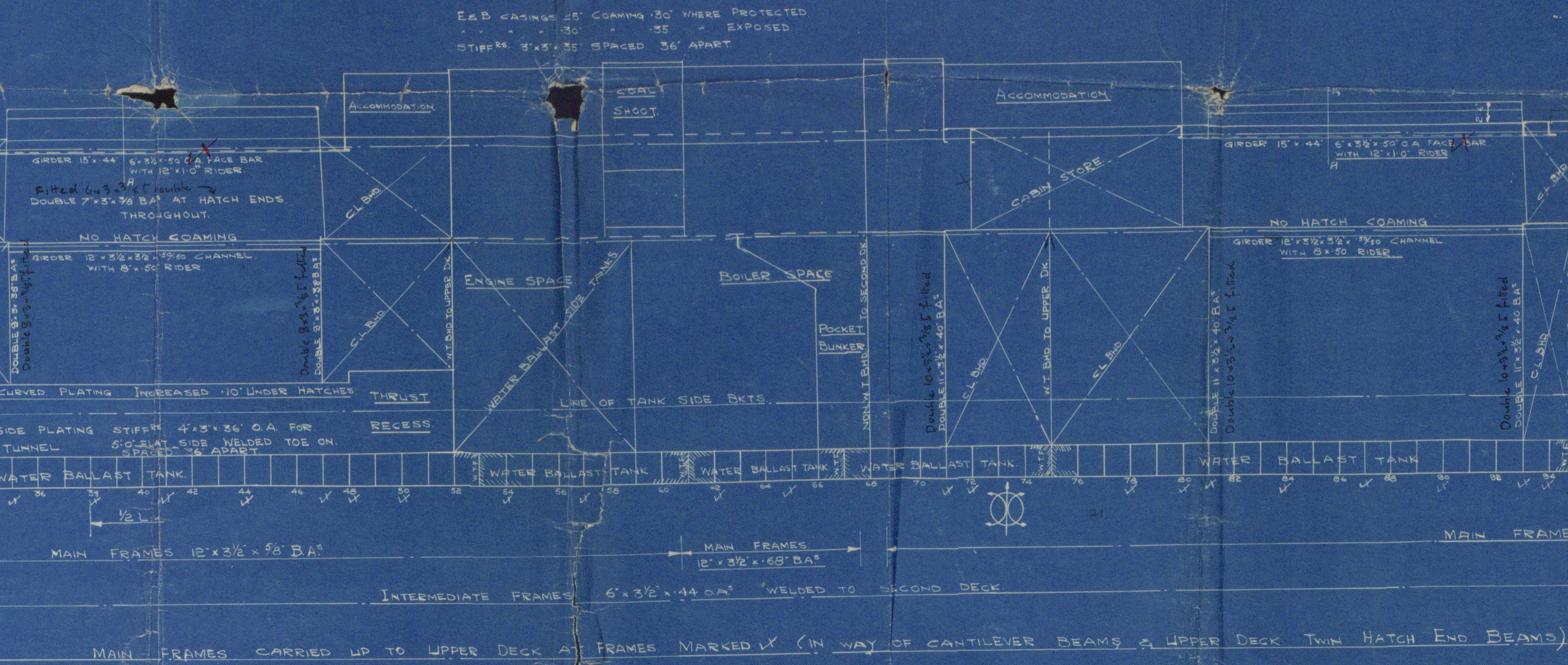
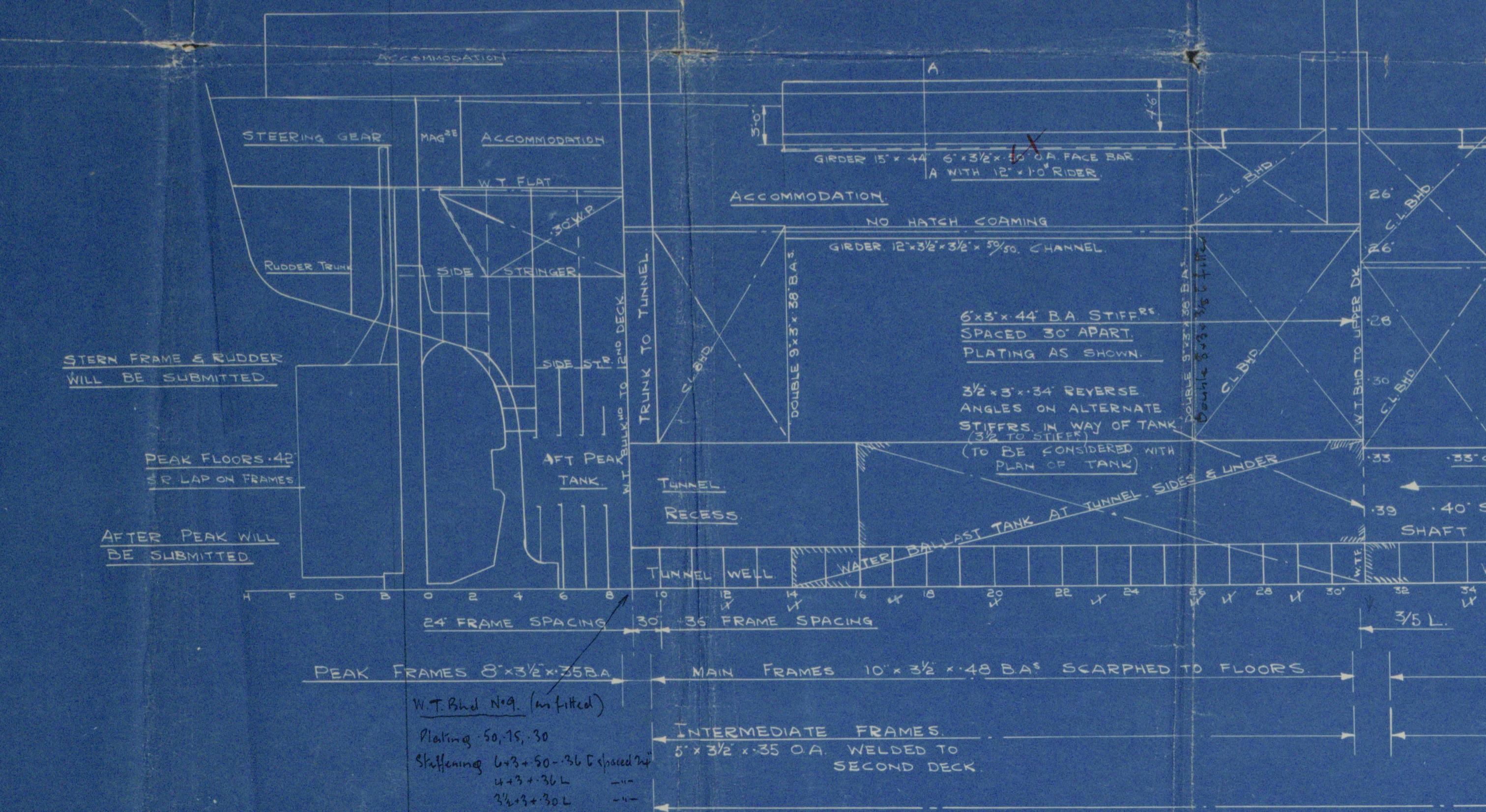
PROFILE.

SCALE : - $\frac{1}{6}$ = 1 FOOT

CLASS 100A1 WITH FREEBOARD CORRESPONDING
TO DRAUGHT EXTREME 26'-0"

DIMENSIONS
LENGTH B.P. ON LWL 425'-0"
BREADTH MOULDED 56'-0"
BREADTH EXTREME 56'-3"
DEPTH MOULDED P.D. DECK (FLAT SHEER)
DEPTH MOULDED UPPER DECK (- *) 38'-0"

THE SCANTLINGS OF BULB ANGLE & CHANNEL SECTIONS
GIVEN ON THIS PLAN ARE N.B.S.



(2)

Bartram, Sons, Ltd.

Yard No. 301-2-3-4

Midship Section

BUNDELRAND RPT. NO. 341444

"Empire Mauritius"

BUNDELRAND RPT. NO. 34207

"Empire Aden".

BUNDELRAND RPT. NO. 34323.

"Empire Tobago".

Cowborough Hill

NOW

GRYFUS VRAE X

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SHIP NO 301303
P. F. (C) TYPE VESSEL
MIDSHIP SECTION.

26 JUN 1943

SCALE $\frac{1}{2}$ " = 1 FOOT

CLASS 100 AI WITH FREEBOARD CORRESPONDING
TO DRAUGHT EXTREME 26.9"

DIMENSIONS.

LENGTH B.P. ON L.W.L.	425'-0"
BREADTH MOULDED	56'-0"
" EXTREME	56'-3"
DEPTH MOULDED 2ND DECK (FLAT SHEER)	37'-3"
" " UPPER " (" ")	38'-0"

NUMERALS.

1ST LENGTH NUMBER	$L \times D = 425.0 \times 37 = 15,725$
2ND "	$L(B+D) = 425(56.0 + 37) = 39,525$
LY TO UPPER DECK	$= 425.0 + 38.0 = 11.18$
D (MOULDED DEPTH)	37
a = $38 - (10.9 + 3.74)$ - CREDIT FOR DEEPER KNEES & FRAME OCT. 21-83	

EQUIPMENT NUMBER. (NORMAL SHEER)

2ND LENGTH NUMBER L(B+D) = 425(56+37)	= 39,525
FORECASTLE 30'-0 x 6.75 x .75	= 192
MIDSHIP DECKHOUSE 96'-0 x 7.5 x .50	= 360
PLATED UPPER DECK AFT 34' x 3' x .75	= 77
EQUIPMENT NUMBER:	40.154

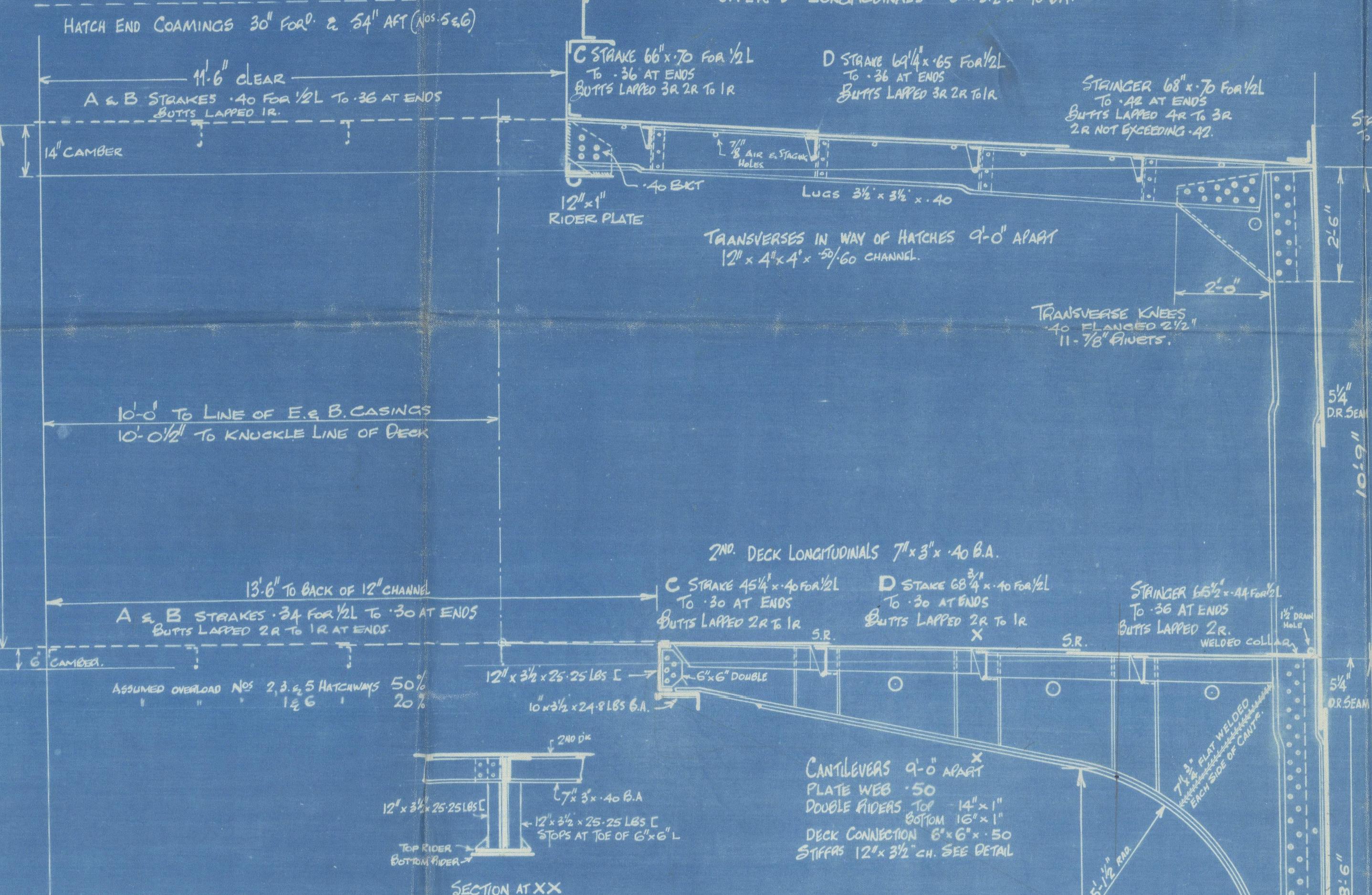
X see letter
 1 POWER ANCHORS 68 CWT EACH STOCKLESS
 1 STREAM 19" EX STOCK
 225 FATHOMS 2 1/2" STD CHAIN CABLE 600 CWT
 90 " 1 1/2" STREAM CHAIN OR 5" FLEXIBLE WIRE 6' x 12'
 120 " 4 1/4" SPECIAL FLEXIBLE STEEL WIRE 6' 24'
 2 HAWKERS 90 FATHOMS 8" HEMP OR 2 1/4" FLEXIBLE STEEL WIRE 6' x 12'
 2 WARPS 90 " 7" " 2' 2" "

RIVETING.

RIVETS IN FRAMES TO FLOORS AND CROSS TIE PLATES IN AFTER PEAK
 " SHELL AT FLAT OF BOTTOM FOR 2 OF 1/2 L FOR.
 " FLOORS " 5/2" (TWO COMPLETE ROWS)
 SIDE FRAMES TO SHELL IN WAY OF 36" FRAME SPACING
 " PANTING AREA & FORE & AFT PEAKS
 BOTTOM FRAMES TO SHELL AFT OF 1/2 L FORWARD & IN WAY OF 36" SPACING
 3 R. BUTTS OF OUTSIDE PLATING & OF DECK STRAIGHT PLATES
 4 R "
 SEAMS OF SHELL PLATING, DECK PLATING AS PER TABLE 40
 BUTTS OF DECK PLATING
 SEAMS OF BULKHEAD PLATING, WEATHER DECK STRAIGHT ANGLES & BILGE PLATE TO BULKHEAD
 FLAT KEEL ANGLES, VERTICAL ANGLES CONNECTING FLOORS TO C.G.
 AND SHELL FLANGE OF W.T. BULKHEAD FRAME
 FRAMES TO FLOORS AFT OF 1/2 L FOR., PERVERSE FRAMES TO FLOORS &
 INNER BOTTOM PLATING, VERTICAL ANGLES TO FLOORS & SIDE GIRDERS,
 IN BILGE STIFFENERS (EXCEPT PEAK BULKHEAD) AND IN DECK PLATING TO BEAMS
 CR. GIRDERS TOP ANGLES (NON-WATERPROOF)
 (WATERPROOF)

DECK PLATING INCREASED, PER CIRCULAR 772/42.

UPPER DK LONGITUDINALS 6" x 3 1/2" x .40 BA.



FORECASTLE
 STRAIGHT PLATE 35" x .36 BUTTS 1R.
 " ANGLE 3 1/2" x 3 1/2" x .36
 DECK PLATING .32 UNSHEATHED, BUTTS LAPPED 1R.
 SIDE PLATING .40 SEAMS & BUTTS 1R.
 BEAMS EVERY FRAME AS PER DECK PLAN.

STRANGER ANGLE 6" x 6" x .68 FOR 1/2 L
 TO 3 1/2" x 3 1/2" x .42 AT ENDS.

K OUT
 83 3/4" x 73 FOR 1/2 L
 TO .46 AT ENDS
 BUTTS LAPPED 4R TO 3R AT ENDS.

J IN
 79 1/2" x .68 FOR 1/2 L
 TO .46 AT ENDS
 BUTTS LAPPED 3R.

H OUT
 69 3/4" x .68 FOR 1/2 L
 TO .46 AT ENDS
 BUTTS LAPPED 3R.
 40 1/8" DIA. RIVETS.

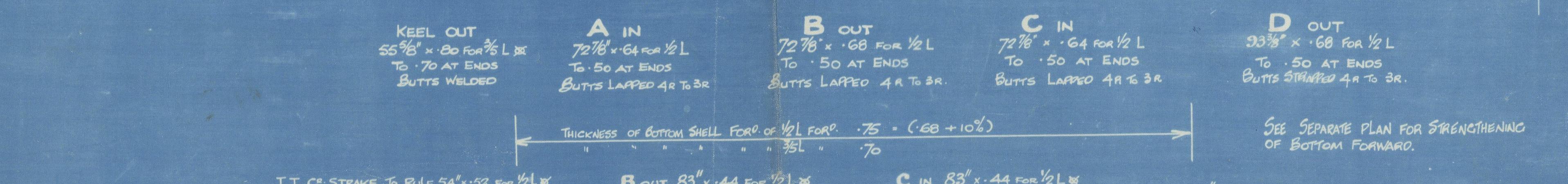
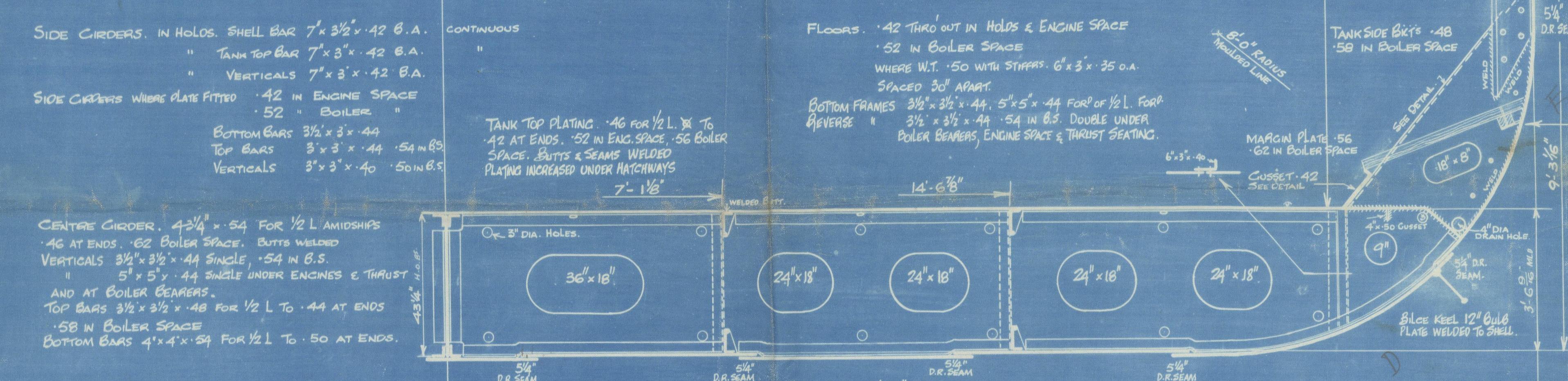
G IN
 70 1/2" x .68 FOR 1/2 L
 TO .46 AT ENDS
 BUTTS LAPPED 3R.
 15 1/8" DIA. AIR HOLES.

F OUT
 69 3/4" x .68 FOR 1/2 L
 TO .46 AT ENDS
 BUTTS LAPPED 3R.

BRACKET SLOTTED & 4" x 1/2" FLAT WELDED
 IN TO TAKE CEILING BEAMER.

E IN
 53 3/8" x .68 FOR 1/2 L
 TO .50 AT ENDS
 BUTTS STRAPPED.

DETAIL OF GUSSET PLATE
 14" FL.
 3" HALF BILGE DRAIN HOLE
 EVERY ALTERNATE FRAME SPACE.



ALTERNATIVE ARRANGEMENT OF TANK TOP PLATING

W.Y.

26.6.43.



(1)

DRYFEEVALE

Bantham Yard No 301-2-3-4

Midships Section

Embodying fabricated material.

SUNDERLAND RPT. NO 341444

376°6

Empire Mauritius

SUNDERLAND RPT. NO. 34207.

Empire Aden.

SUNDERLAND RPT. NO. 34323.

Empire Tobago. *

Crowborough Hill.

N/N KRIS

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015213-015222-0206

Lloyd's Register
Foundation

No. 301.
P.F. (C) TYPE VESSEL.

MIDSHIP SECTION.

SCALE 1/2" = 1 FOOT.

CLASS 100 AI WITH FREEBOARD CORRESPONDING
TO DRAUGHT EXTREME 26'-9"

DIMENSIONS

LENGTH B.P. ON LWL 425' 0"
FREEBOARD MOULDED 36' 0"
BREADTH EXTREME 56'-3"
DEPTH MOULDED 2ND DECK (FLAT SHEER) 27'-3"
DEPTH MOULDED UPPER DK () 38'-0"

NUMERALS

1ST LONGTH NUMBER LxD 425'0" 37' = 13725
2ND " " L(B+d) 425(36+37) = 39525
d TO UPPER DECK 4250 ÷ 380 = 1118
D (MOULDED DEPTH) = 37
d = 38 - (10'9" + 3'78") - CREDIT FOR DEEPER KNEES & FRAME DIK 2183'

EQUIPMENT NUMBER 40.157

EQUIPMENT

X 2 BOWER ANCHORS 68 CWT. EACH STOCKLESS.
1 STREAM ANCHOR 19" EX. STOCK
X 225 FATHOMS 2 1/2" STUD CHAIN CABLE 600 CUTS.
90" 1 1/2" STREAM CHAIN OR 5" FLEXIBLE WIRE 6x12.
120" 4 1/4" SPECIAL FLEXIBLE STEEL WIRE 6x24.
2 HAWSERS 90 FATHOMS 8" HEMP OR 2 1/2" FLEXIBLE STEEL WIRE 6x12.
2 WARPS 90" 7" 2 1/2" 6x12.

RIVETING

RIVETS IN FRAMES TO FLOORS & CROSS TIE PLATES IN AFTER PEAK SPACED 5 DIAS.
SHELL AND FLOOR OF FORWARD OF ENGINE ROOM SPACED 3 DIAS.
FLOORS 3 1/2" ()
SIDE FRAMES TO SHELL SPACED 5 1/2" DIAS IN WAY OF 36 SPACING.
" " 5 1/2" " PANTING AREA & FORE-AFT PEAKS
BOTTOM FRAMES TO SHELL AFT OF 1/2 L FORWARD SPACED 6 DIAS IN WAY OF 36 SPACING
3R BUTTS OF OUTSIDE PLATING B OF DECK STRINGER PLATES SPACED 3 1/2" DIAS.
" 4R " " " " " 4
SEAMS OF SHELL PLATING, DECK PLATING AS PER TABLE 40 IN LLOYD'S RULES
BUTTS OF DECK PLATING SPACED 4 DIAS. APART C+C
SEAMS OF BULKHEAD PLATING WEATHER DECK STRINGER ANGLES & BULKHEAD FRAME
TO BULKHEAD 4 1/2 DIAS APART
RIVETS IN FLAT KEEL ANGLES, VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIRDERS
SHELL FLANGE OF WT BULKHEAD FRAME 5 DIAS. APART
RIVETS IN FRAMES TO FLOORS AFT OF 1/2 L FORWARD REVERSE FRAMES TO FLOORS & IN THE BOTTOM
PLATING VERTICAL ANGLES TO FLOORS & SIDE GIRDERS IN BULKHEAD STIFFENERS (EXCEPT
PEAK BULKHEADS) AND IN DECK PLATING TO BEAMS SPACED 7 DIAS.
RIVETS IN CENTRE GIRDER TOP ANGLES (NON-WATERTIGHT) SPACED 7 DIAS
WATERTIGHT) 5 "

THE SCANTLINGS OF ANGLE & BULB ANGLE
SECTIONS GIVEN ON THIS PLAN ARE N.B.S.

SIDE GIRDERS - IN HULL SHELL BAR 7 3/8" x 42.8A CONTINUOUS
" TANK TOP BAR 7 3/8" x 42.8A.
VERTICALS 7 3/8" x 42.8A.
SIDE GIRDERS WHERE PLATE FITTED IN ENGINE SPACE
" 52 IN BOILER SPACE
BOTTOM 3 1/2" x 44
TOP 2 3/8" x 44, 54 IN BS
VERTICALS 3 1/3" x 40, 50 IN BS

PARTICULARS OF WELDING

SEE
SEPARATE
PLAN.

CENTRE GIRDER 43 1/4" x 54 FOR 1/2 L AMIDSHIPS,
46 AT ENDS, 62 BOILER SPACE BUTTS WELDED
VERTICALS 3 1/2" x 3 1/2" x 44 IN BS
5 1/2" x 44 SINGLE UNDER ENGINES,
THRUST & AT BOILER BEARERS
TOP BARS 3 1/2" x 44 FOR 1/2 L TO 44 AT ENDS
52 IN BOILER SPACE
BOTTOM BARS 4 1/4" x 44 FOR 1/2 L
TO 50 AT ENDS

KEEL OUT
55 1/8" x 80 FOR 1/2 L AMIDSHIPS
TO 70 AT ENDS
BUTTS WELDED.

A IN
72 1/8" x 64 FOR 1/2 L
TO 50 AT ENDS
BUTTS LAPPED A TO 30

B OUT
72 1/8" x 64 FOR 1/2 L
TO 50 AT ENDS
BUTTS LAPPED A TO 30

C IN
72 1/8" x 64 FOR 1/2 L
TO 50 AT ENDS
BUTTS LAPPED A TO 30

D OUT
93 1/8" x 68 FOR 1/2 L
TO 50 AT ENDS
BUTTS WELDED

SEE SEPARATE PLAN FOR STRENGTHENING
OF BOTTOM FORWARD.

PLAN NO. 37 P.F. (C)
DEPARTMENT - ADMIRALTY-D.M.B.
DATE - 24.5.43



(C) *CH*

Bartram & Sons Ltd,
As
Art.
Ship No 301. P.F. ("C") Type.
Stunframe.

Yard No 301-2-3-4

BUNDELRAND RPT. NO. 34144

Empire Mauritius

BUNDELRAND RPT. NO. 34207

Empire Order

BUNDELRAND RPT. NO. 34323.

Empire Tobago. *(crossed out)*

'GRYFEVALE'

Goodfellow Hill

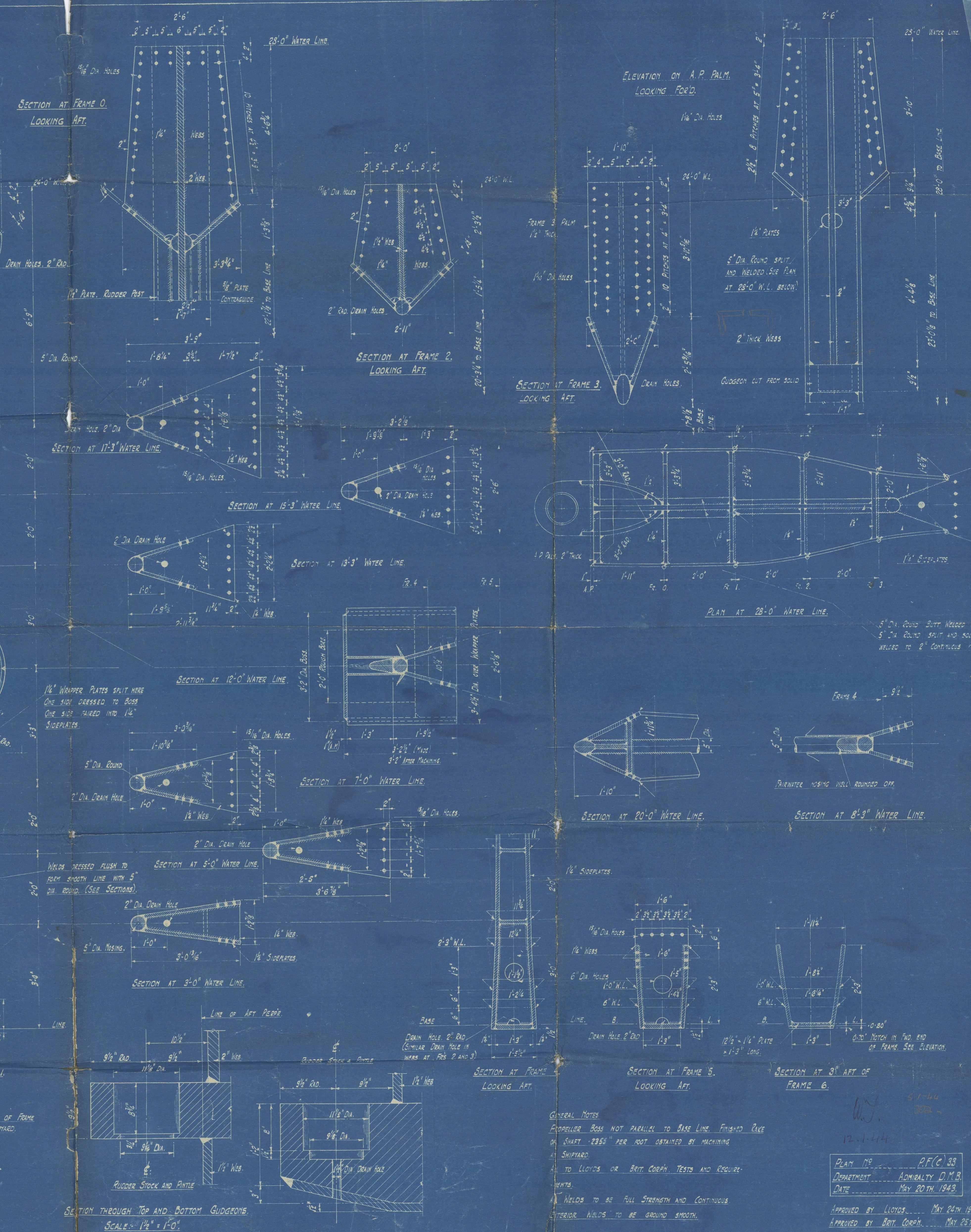
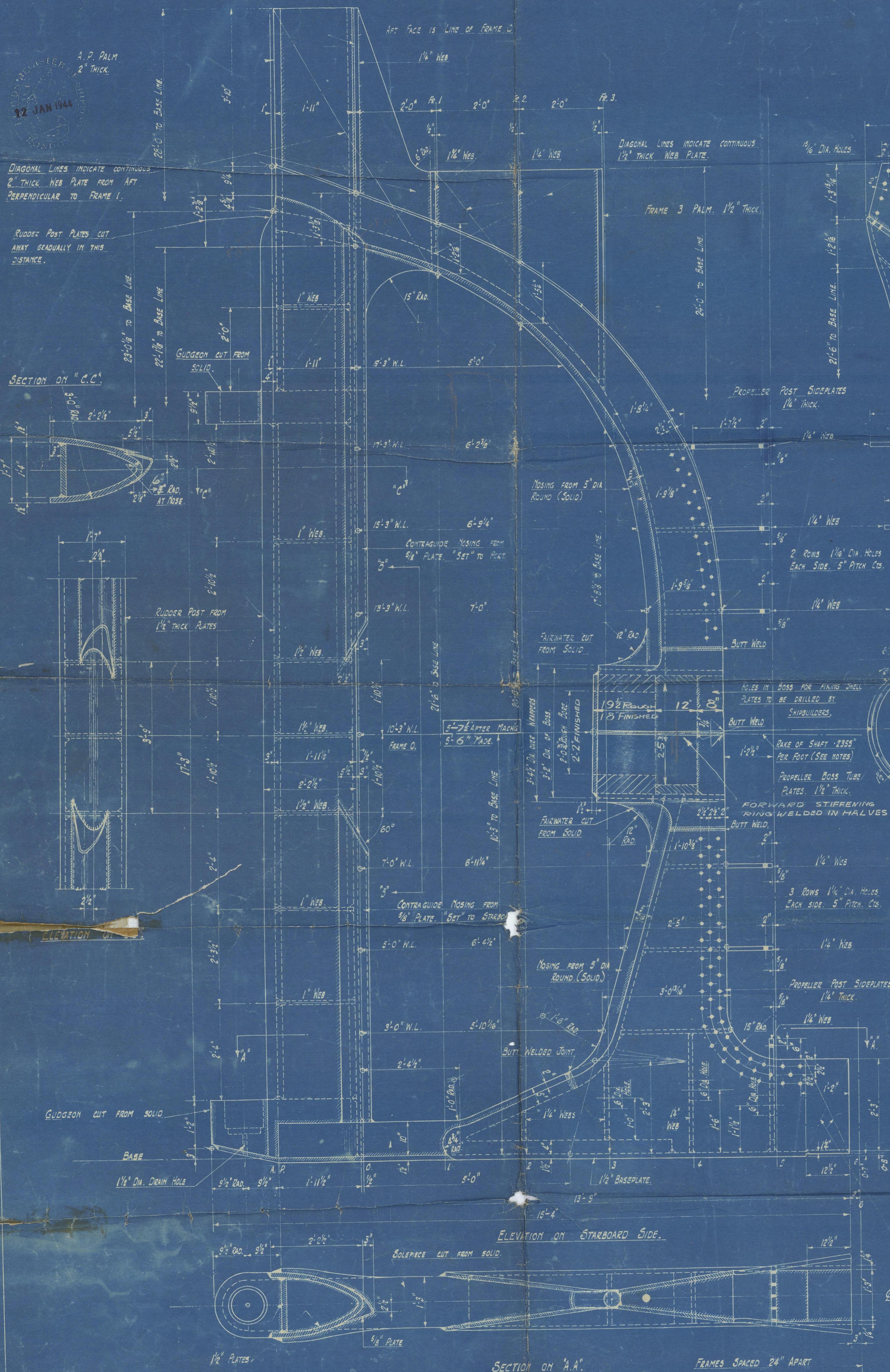
N. N. "GRYFEVAL E" *(crossed out)*

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P.F. "C" TYPE VESSEL. FABRICATED STERNFRAME.



GENERAL NOTES
PROPELLER BOSS NOT PARALLEL TO BASE LINE FINISHED RAKE
ON SHAFT .035" PER FOOT OBTAINED BY MACHINING
AT SHIPYARD
TO LLOYDS OR BRIT. CORP. TESTS AND REQUIREMENTS
WELDS TO BE FULL STRENGTH AND CONTINUOUS
INTERIOR WELDS TO BE GROUND SMOOTH.

PLATE NO. P.F.C.38
DEPARTMENT ADMIRALTY D.M.B.
DATE MAY 20TH 1943

APPROVED BY LLOYDS MAY 26TH 1943
APPROVED BY BRIT. CORP. MAY 27TH 1943



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Foundation

(7)
Bartram & Sons Ltd

Ship No 301. P.F ("C") Type
Rudder Plan

- Yard No 301-2-3-4

BUNDERLAND RPT. NO. 341444

"Empire Mauritius"

BUNDERLAND RPT. NO. 34207

"Empire Aden"

BUNDERLAND RPT. NO. 34323

"Empire Tobago." 

N.N. "CROWBOROUGH HILL"

N.N. "GRYFEVALE" 

MARKAB



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